

WHAT IS CLAIMED IS:

1. A system target decoder operable to receive and process information,  
comprising:
  - a) a first demultiplexer operable to demultiplex a transport stream into  
5 packets each having a given packet identifier;
  - b) at least two transport buffers operable to receive packets from the first  
demultiplexer, each said transport buffer receiving packets with the same  
packet identifier;
  - c) a smoothing buffer, corresponding to one of the transport buffers,  
10 operable to receive packets from the transport buffer at a predetermined  
rate;
  - d) a second demultiplexer operable to demultiplex data from within the  
packets from the smoothing buffer into data access unit data; and
  - e) at least two data elementary buffers operable to receive the data access  
15 unit data from the second demultiplexer.
2. The decoder as claimed in claim 1, wherein the system further includes a  
third demultiplexer between the smoothing buffer and the second  
demultiplexer operable to demultiplex asynchronous data separate from  
synchronized data.
- 20 3. The decoder as claimed in claim 1, wherein the second demultiplexer also  
demultiplexes asynchronous data separate from synchronized data.
4. A method of demultiplexing data within a transport stream packet comprising  
the steps of:

15

- SLA0207 Page 14